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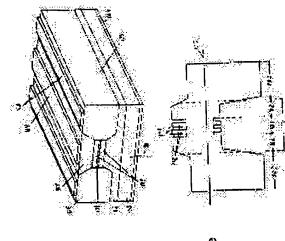
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(54) SEMICONDUCTOR LIGHT EMITTING ELEMENT

(57) Abstract:

wavelength of the emitted light is determined by the layer thickness. The thickness of the ā different from each other, i.e. an InO.73GaO.27 AsO.59PO.41 quantum well layer 111 and an CONSTITUTION: Referring an energy level diagram which describes the band conditions of PURPOSE: To facilitate high speed operation by a method wherein a multiquantum well is Ino. 87Gao. 13Aso. 31Po. 69 barrier layer 112. Carriers are captured in the layer with the narrower forbidden band and recombination is created and a light is emitted. Therefore, Ino.87Gao.13Aso.31Po.69 layer, 103, an N-type InP emitter layer and 104, an N-type InP emitter layer 103, a base layer 110 and a collector layer 104, a multiquantum well 101 multiquantum well layer 101 is 700% angst;. The reference numeral 102 denotes a P-type provided in a base layer to facilitate laser oscillation or light emission of a laser quantity of the emitted light depends upon quantity of the captured carriers and the consists of two types of InGaAsP layers which have respective forbidden band widths transistor or a light emitting transistor in an activated condition.



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